

What is claimed is:

1. A preparation method for a lithographic printing plate, which comprises forming a presensitized plate by coating a photosensitive layer or thermosensitive layer on an aluminum substrate treated with an aqueous solution after anodized and developing the presensitized plate with a developer comprising no silicate, wherein the aqueous solution comprises at least one compound selected from the group consisting of nitrite group-containing compound, fluorine atom-containing compound and phosphorous atom-containing compound, in the proviso that when the at least one compound is fluorine atom-containing compound, the treated aluminum substrate has a surface which satisfies the formula :  $0.30 \leq A/(A+B) \leq 0.90$  wherein, A represents peak area of fluorine atom (1S) (counts · eV/sec) determined by X ray Electron Spectroscopy for Chemical Analysis (ESCA), and B represents peak area of aluminum atom (2P) (counts · eV/sec) determined by X ray ESCA, and when the at least one compound is phosphorous atom-containing compound, the treated aluminum substrate has a surface which satisfies the formula:  $0.05 \leq A/(A+B) \leq 0.70$  wherein, A represents peak area of phosphorous atom (2P) (counts · eV/sec) determined by X ray ESCA, and B represents peak area of aluminum atom (2P) (counts · eV/sec) determined by X ray ESCA.

2. The method of claim 1, wherein the nitrite group-containing compound is selected from the group consisting of nitrous acid, metal salt of nitrous acid and ammonium salt of nitrous acid.

3. The method of claim 1, wherein the fluorine atom-containing compound is selected from the group consisting of metal fluoride and hexafluorozirconic acid, hexafluorotitanic acid, hexafluorosilicic acid, fluorophosphoric acid, and metal or ammonium salt thereof.

4. The method of claim 1, wherein the phosphorous atom-containing compound is selected from the group consisting of phosphoric acid, phosphotungstic acid, phosphomolybdic acid, fluorophosphoric acid,

phosphorous acid, hypophosphorous acid, polyphosphoric acid, metaphosphoric acid, metal or ammonium salt thereof, and phosphonic acid group-containing compound.

5. The method of claim 1, wherein the developer comprising no silicate is a developer comprising (a) at least one sugar selected from non-reducing sugars and (b) at least one base (except for silicate) and having pH ranging from 9.0 to 13.5.

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